

<p>23 I hereby certify that the information given above is true and complete to the best of my knowledge and belief. I further certify that the drilling pit will be constructed according to NMOCD guidelines <input checked="" type="checkbox"/> a general permit <input type="checkbox"/>, or an (attached) alternative OGD-approved plan <input type="checkbox"/>.</p> <p>Signature: <u>Sorina Flores</u></p> <p>Printed name: <u>Sorina L. Flores</u></p> <p>Title: <u>Drilling Tech</u></p> <p>E-mail Address: <u>Sorina_flores@xtocenergy.com</u></p> <p>Date: <u>3/1/07</u> Phone: <u>432-620-6749</u></p>		<p>OIL CONSERVATION DIVISION</p> <p>Approved by: <u>Chris Williams</u></p> <p>Title: <u>MAR 13 2007</u></p> <p>Approval Date: <u>OC DISTRICT SUPER</u> Expiration Date: <u>ISOR/GENERAL MANAGER</u></p> <p>Conditions of Approval Attached <input type="checkbox"/></p>	
--	--	---	--

DISTRICT I
1625 N. FRENCH DR., HOHES, NM 88240

State of New Mexico
Energy, Minerals and Natural Resources Department

Form C-102

DISTRICT II
1301 W. GRAND AVENUE, ARTESIA, NM 88210

OIL CONSERVATION DIVISION
1220 SOUTH ST. FRANCIS DR.
Santa Fe, New Mexico 87505

Revised October 12, 2005
Submit to Appropriate District Office
State Lease - 4 Copies
Fee Lease - 3 Copies

DISTRICT III
1000 Rio Brazos Rd., Aztec, NM 87410

DISTRICT IV
1220 S. ST. FRANCIS DR., SANTA FE, NM 87505

WELL LOCATION AND ACREAGE DEDICATION PLAT

☐ AMENDED REPORT

API Number 30-025-28586	Pool Code 61760	Pool Name North Vacuum ABO
Property Code 301587	Property Name NORTH VACUUM ABO UNIT	Well Number 243 H
OGRID No. 5380	Operator Name XTO ENERGY INC.	Elevation 4032'

Surface Location

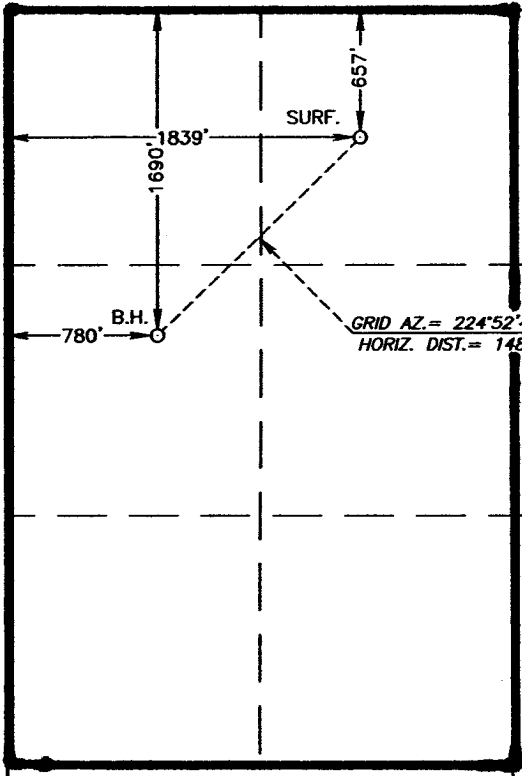
UL or lot No.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County
C	26	17-S	34-E		657	NORTH	1839	WEST	LEA

Bottom Hole Location If Different From Surface

UL or lot No.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County
E	26	17-S	34-E		1690	NORTH	780	WEST	LEA

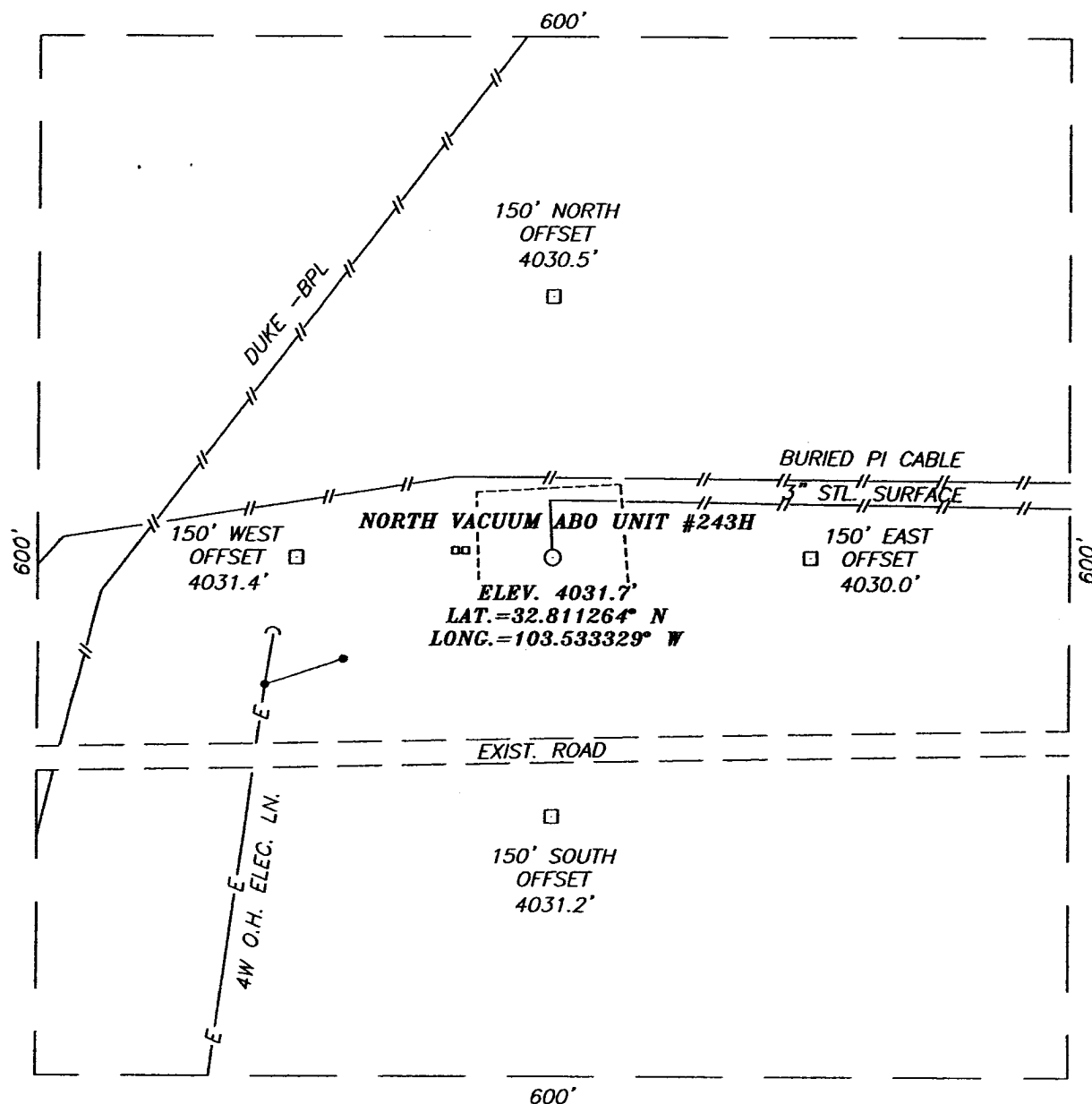
Dedicated Acres	Joint or Infill	Consolidation Code	Order No.
240			

NO ALLOWABLE WILL BE ASSIGNED TO THIS COMPLETION UNTIL ALL INTERESTS HAVE BEEN CONSOLIDATED
OR A NON-STANDARD UNIT HAS BEEN APPROVED BY THE DIVISION

	<p>GEODETIC COORDINATES NAD 27 NME SURFACE LOCATION Y=659778.8 N X=745792.1 E</p> <p>LAT.=32.811264° N LONG.=103.533329° W</p> <p>BOTTOM HOLE LOCATION Y=658733.5 N X=744742.5 E</p> <p>GRID AZ.= 224°52'45" HORIZ. DIST.= 1481'</p>	<p>OPERATOR CERTIFICATION</p> <p>I hereby certify that the information herein is true and complete to the best of my knowledge and belief, and that this organization either owns a working interest or unleased mineral interest in the land including the proposed bottom hole location or has a right to drill this well at this location pursuant to a contract with an owner of such mineral or working interest, or to a voluntary pooling agreement or a compulsory pooling order heretofore entered by the division.</p> <p><i>Sorina L. Flores</i> 3/1/07 Signature Date Printed Name</p> <p>SURVEYOR CERTIFICATION</p> <p>I hereby certify that the well location shown on this plat was plotted from field notes of actual surveys made by me or under my supervision, and that the same is true and correct to the best of my belief.</p> <p>FEBRUARY 9, 2007</p> <p>Date Surveyed AR Signature & Seal of Professional Surveyor <i>Ronald J. Edson</i> 02/15/07 07.11.0165</p> <p>Certificate No. GARY EIDSON 12841 RONALD J. EIDSON 3239</p>
---	--	---

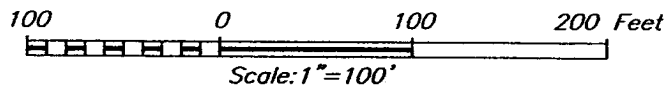
*This well being drilled under provisions
of Rule 2 of North Vacuum ABO rules

SECTION 26, TOWNSHIP 17 SOUTH, RANGE 34 EAST, N.M.P.M.,
 LEA COUNTY, NEW MEXICO



DIRECTIONS TO LOCATION

FROM BUCKEYE GO NORTH ON U.S. HWY. #8
 APPROX. 0.5 MILES. TURN LEFT AND GO WEST
 APPROX. 0.7 MILES. TURN LEFT AND GO SOUTH
 APPROX. 0.1 MILES. VEER RIGHT AND CONTINUE
 ON WEST APPROX. 1.3 MILES. VEER RIGHT
 CONTINUE ON NORTH APPROX. 0.2 MILES. TURN
 RIGHT AND GO EAST APPROX. 0.2 MILES TO
 EXISTING NORTH VACUUM ABO UNIT #243 WELL.



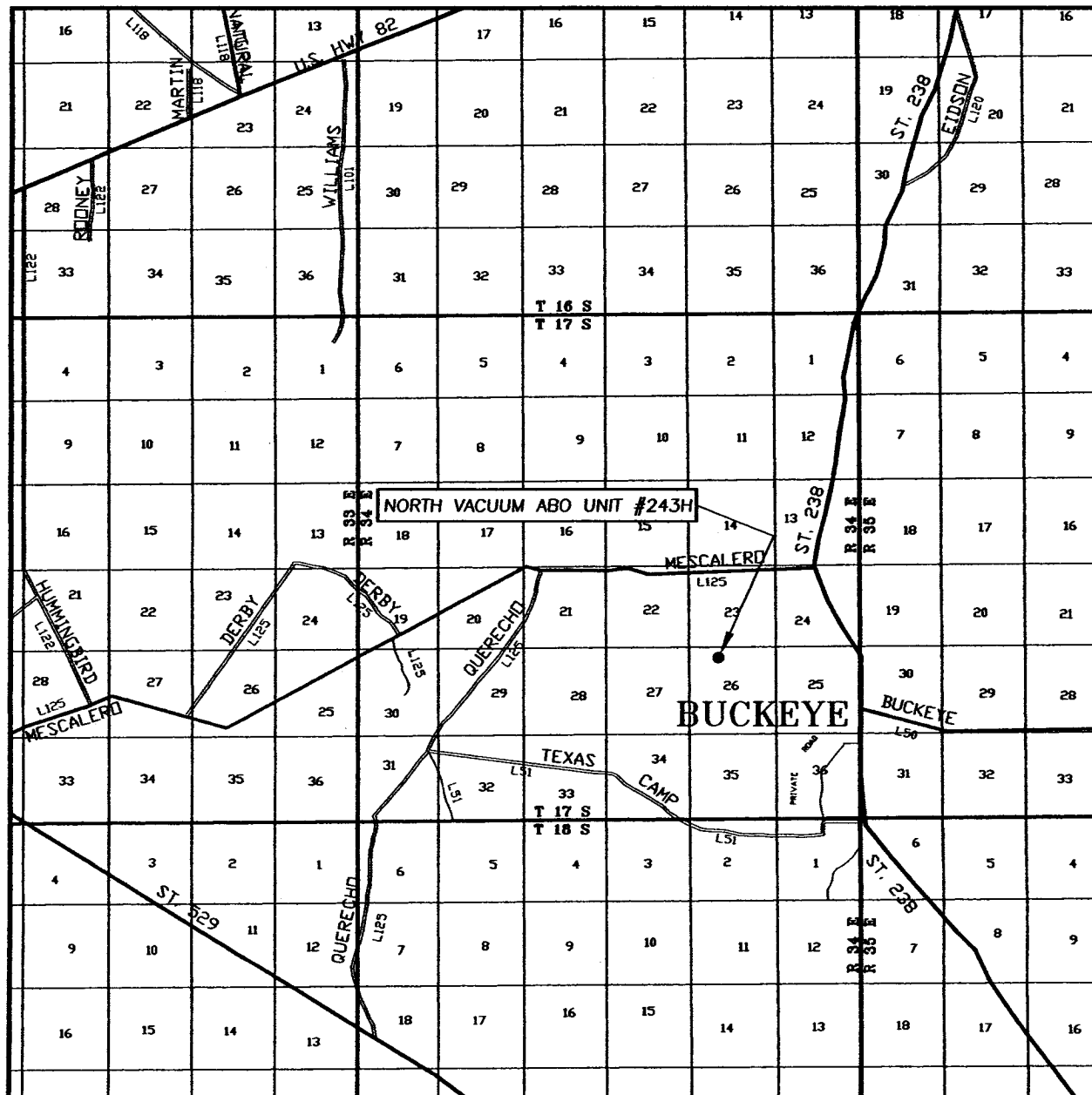
XTO ENERGY INC.

NORTH VACUUM ABO UNIT #243H WELL
 LOCATED 657 FEET FROM THE NORTH LINE
 AND 1839 FEET FROM THE WEST LINE OF SECTION 26,
 TOWNSHIP 17 SOUTH, RANGE 34 EAST, N.M.P.M.,
 LEA COUNTY, NEW MEXICO.

Survey Date: 02/09/07	Sheet 1 of 1 Sheets
W.O. Number: 07.11.0165	Dr By: AR
Date: 02/12/07	Disk: 07110165
	Rev 1:N/A
	Scale: 1"=100'

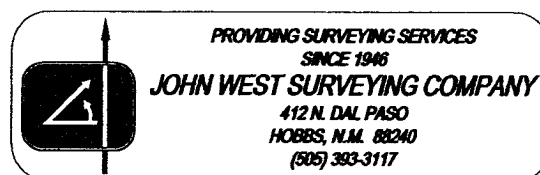
PROVIDING SURVEYING SERVICES
 SINCE 1946
JOHN WEST SURVEYING COMPANY
 412 N. DAL PASO
 HOBBS, N.M. 88240
 (505) 393-3117

VICINITY MAP

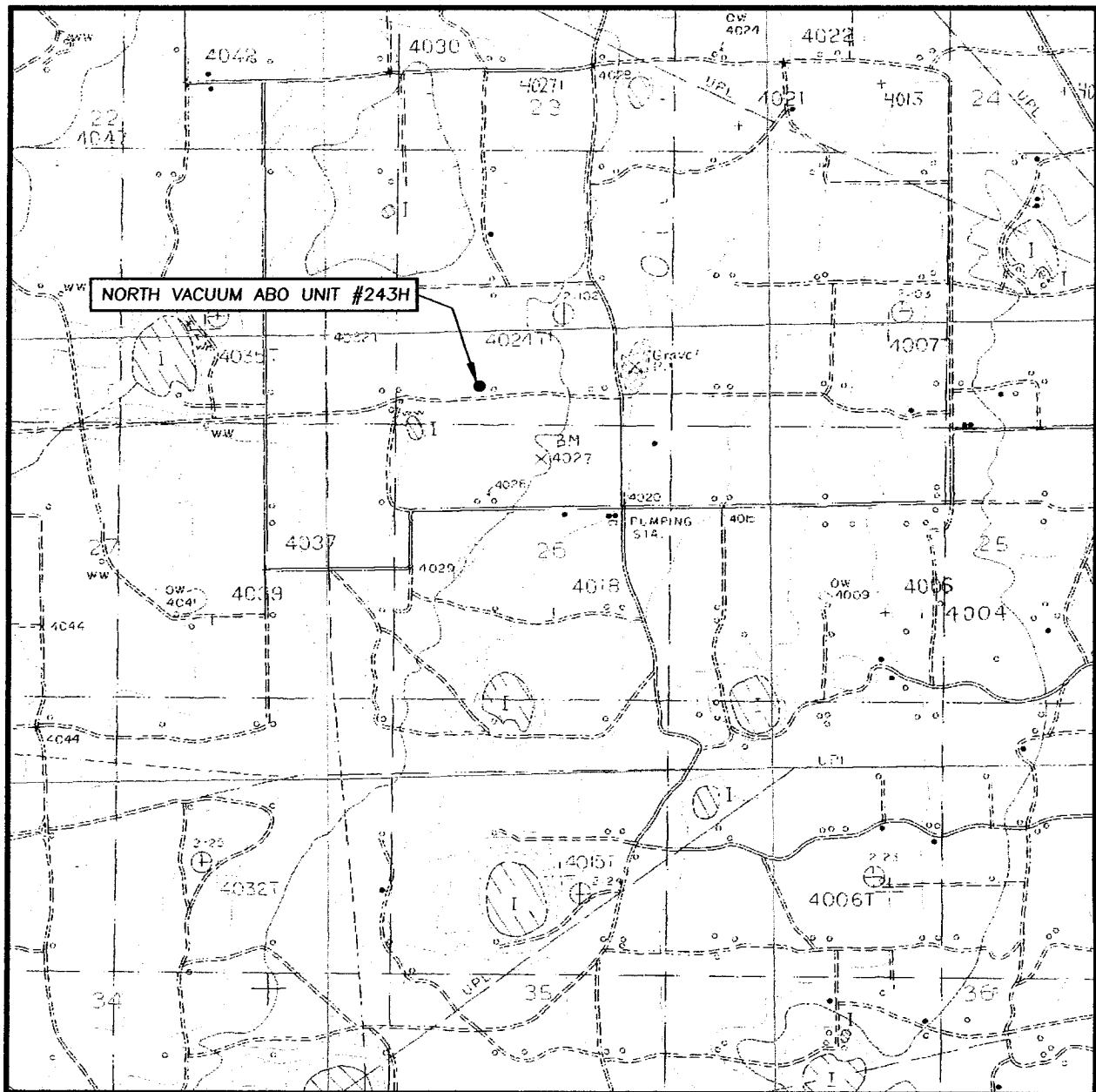


SCALE: 1" = 2 MILES

SEC. 26 TWP. 17-S RGE. 34-E
 SURVEY N.M.P.M.
 COUNTY LEA STATE NEW MEXICO
 DESCRIPTION 657' FNL & 1839' FWL
 ELEVATION 4032'
 OPERATOR XTO ENERGY INC.
 LEASE NORTH VACUUM ABO UNIT



LOCATION VERIFICATION MAP



SCALE: 1" = 2000'

CONTOUR INTERVAL:
BUCKEYE, N.M. - 10'

SEC. 26 TWP. 17-S RGE. 34-E

SURVEY N.M.P.M.

COUNTY LEA STATE NEW MEXICO

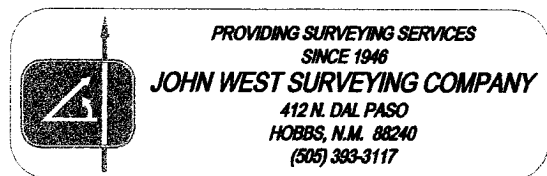
DESCRIPTION 657' FNL & 1839' FWL

ELEVATION 4032'

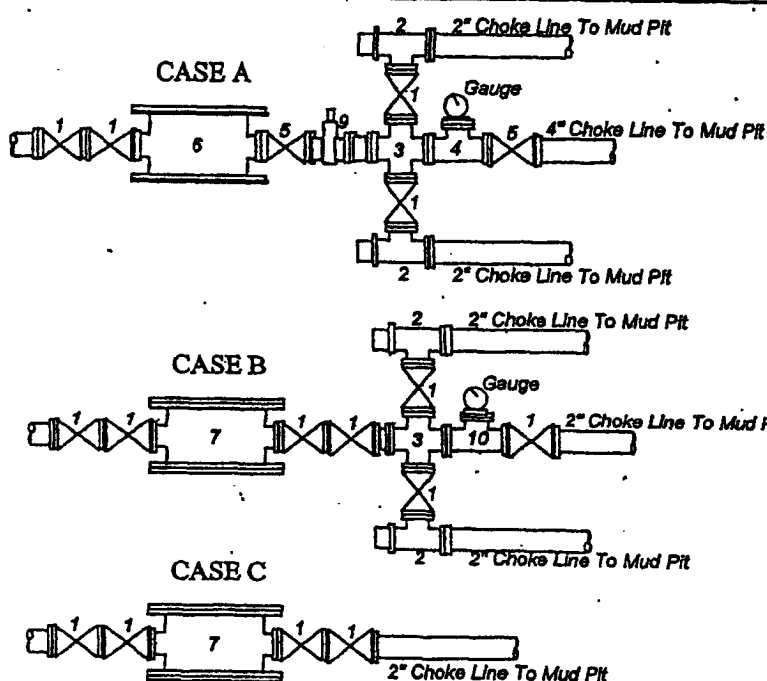
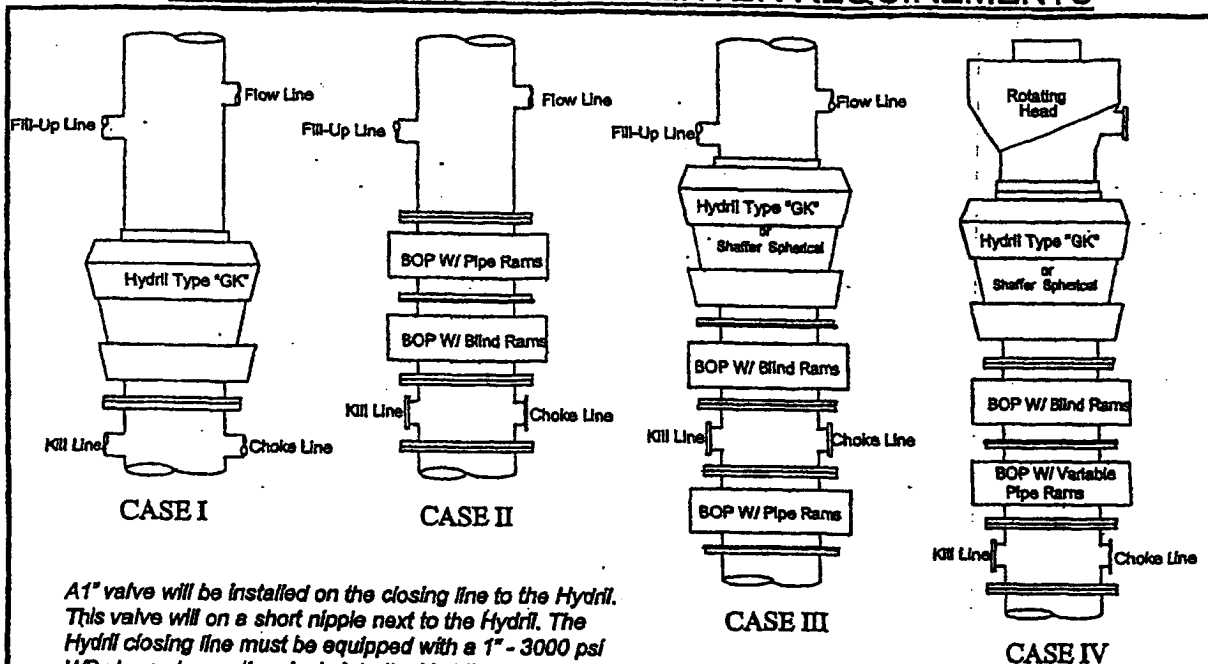
OPERATOR XTO ENERGY INC.

LEASE NORTH VACUUM ABO UNIT

U.S.G.S. TOPOGRAPHIC MAP
BUCKEYE, N.M.



MINIMUM BLOWOUT PREVENTER REQUIREMENTS



BOP SIZE	BOP CASE	WORKING PRESSURE	CHOKE CASE
13-5/8"	IV	5000	A

***Rotating head required**

Bradenhead furnished by Conoco will be:
 Mfr: Wood Group
 Description: 13-3/8" x 13-5/8" 3M
 Type: SOW

Legend:

1. 2" flanged all steel valve must be either Cameron "F", Halliburton Low Torque or Shaffer Flo-Seal.
2. 2" flanged adjustable chokes, min. 1" full opening & equipped with hard trim.
3. 4" x 2" flanged steel cross.
4. 4" flanged steel tee.
5. 4" flanged all steel valve (Type as in no. 1).
6. Drilling Spool with 2" x 4" flanged outlet.
7. Drilling Spool with 2" x 2" flanged outlet.
8. 2" x 2" flanged steel cross.
9. 4" pressure operated gate valve.
10. 2" flanged steel tee.

Notes

Choke manifold may be located in any convenient position. Use all steel fittings throughout. Make 90° turns with bull plugged tees only. No field welding will be permitted on any of the components of the choke manifold and related equipment upstream of the chokes. The choke spool and all lines and fittings must be at least equivalent to the test pressure of the preventers required. Independent closing control unit with clearly marked controls to be located on derrick floor near driller's position.

NVAC #243H
Horizontal Sidetrack Procedure
North Vacuum Abo Field
Lea County, New Mexico
AFE #710796
XTO WELL ID #61514

TD: 8700'
PBSD: 8695'
8-5/8" Casing: 5000'
5-1/2" Liner: 8700 – 4153' TOL, 5-1/2" 15.5# & 17# K-55
see wellbore diagram for all details

Surface Location: 657' FNL & 1839' FWL, Sec 26, T17S, R34E
Target BHL: 1690' FNL & 780' FWL, Sec 26, T17S, R34E
Drilled Date:
Abo Perfs: 8494-8672' OA
Ground Elev: 4032'
Original KB Elev: 4042' ??? (10' AGL)
Key Energy #36: 4044' (12'AGL)

1. MIRU Key Rig #36. Install BOP. Test to 250# & 1000#. Notify NMOGB – permit attached.
2. Unload and tally $\pm 6200'$ 2-7/8" 10.40# AOH & 4000' 3-1/2" 13.30# IF workstring. 10 3-1/4" or 3-1/2" Spiral DC's for weight. Knight Oil Tools has pipe.
3. R/U WSI WL. Run gauge ring and junk basket for 5-1/2" 17# (drift ID – 4.767") to 8500'. Log up and tie into csg collars @ 8419.5', 8378', 8339', 8298' (see attached log). P/U Baker Oil Tools wireline set 5-1/2" 17# RBP. Set RBP so that the top will be at 8335' RD WL.
4. PU 4-3/4" dummy milling assbly or 4-3/4" flat bottom mill with the 2-7/8" AOH & 3-1/2" IF drill pipe and TIH. Tag up on the RBP @ 8335', set down 20,000# of weight on the RBP. Circulate the hole with fresh water. TOOH with assbly.
5. PU Weatherford Services Whipstock System (3° face) with metal muncher mills. **Note: Make sure all mills will gauge to 4.75". Minimum DD is 4.767"**. Total length of the whipstock assembly in the set position is approximately 12'. Orient the UBHO sub and whipstock face on the surface. Insert the gyro stinger (Scientific Drilling) to ensure compatibility and to check orientation.
6. TIH with the whipstock assembly slowly, being careful when picking the string up off of the slips and when setting the slips. Fill DP every 2000'. Tag the RBP at 8335' with 2000# of weight. PU to first tool joint and RU Scientific Drilling gyro truck. Orient the whipstock to the desired azimuth and work the torque out of the drill string.
7. When desired orientation is achieved, tag the RBP with 2000# of weight, take a final check shot with gyro, then apply weight and set the anchor with 20,000# compression to shear the running bolt. RD WL truck.
8. Obtain values for free torque, PU & SO weights. Install ditch magnets at the surface. Lower milling assembly and make the starting cut through the casing wall at approximately 8323'.

9. Mill the remainder of the window, 8323-29', making the necessary rat hole (8335') to ensure that the string mill has fully opened the window, and that the window exit is smooth. Work the mills through the window. When the window is "clean", circulate the hole clean, TOO H and LD the window mills.
10. PU 4-3/4" bit (Smith XR 30 PS), PU 's 3-1/2" dir assbly w Non-Mag DC & GammaRay, run surface tests, and TIH. ***Mud loggers should be rigged up after cutting the window and prior to commencing the curve.*** Use Gyro for first few surveys. Follow attached well plan from Schlumberger. Open hole lateral length is +/- 1200'. **For trips out of the hole, circ hole clean with polymer sweep(s). TOH slowly in the curve and lateral, if necessary consider pumping out.**
11. At TD, circulate the hole clean with polymer sweeps.
12. TOO H and LD directional tools.
13. TIH with 4-3/4" (4-1/2") swaging tool, single reamer about 7-8 jts behind swaging tool, wash and ream to TD. POH and place 2nd reamer 1 jt behind 1st, wash and ream to TD, pull back up through the window, RIH for push pull test to btm, circ hole clean.
14. TOO H & LDDP. RD Re-entry Rig. Prepare to move to the next location.

Chip
3/1/07

MASTER GEOLOGICAL WELL PLAN & AFE REQUEST (Single Horizontal Well)

For Directional Information Use the Yellow Tab Below.

OPERATOR:	XTO Energy	BY:	Richard Simpson
WELL NAME:	NVAU 243 H	DATE:	2/31/2007
LOCATION:	SEC 26 TWN 17S RNG 34E (North Vacuum Abo Unit)	COUNTY / STATE:	Lea, New Mexico
SHL	657 FNL and 1839 FWL	Spud Date:	2007
BHL	1690 FNL and 780 FWL	Remarks:	
PROPOSED T.V.D.:	8584'		
PROPOSED T.D.:	9,763		

Geologist:	Richard Simpson	Office:	(817)-885-2386
If no response, please leave a message and wait at least 15 minutes before calling the backup.		Home:	(817)-447-3633
		Cell:	(817)-703-8579
Backup Contact	Charles Ways	Office:	817-885-2801
(If Richard Simpson is unavailable)		Home:	817-557-1937
		Cell: (Call Cell First)	817-680-8302

EXPECTED FORMATION TOPS:	Aprox KB	4036'
--------------------------	----------	-------

Formation	Subsea Depth (feet)	Well Depth (feet)
Abo A	-4,374'	8,410'
Abo D	-4,422'	8,458'
Abo E	-4,466'	8,502'

MUD LOG:			
DEPTH ON	DEPTH OFF	MUD LOGGING COMPANY	TYPE UNIT
After milling window	TD	Suttles	2-man
SAMPLES:	Caught & Bagged	Depth Interval	No. of Sets of Samples
1 full bag	Every 10 feet	window-TD	1 set of dry samples

OPENHOLE LOGS:	TYPE LOGS	WELL DEPTH	LOG INTERVAL
LOGGING COMPANY:	To Be Determined		Casing to TD
Logs:	GR while drilling		
Remarks:	E-Mail GR and Survey twice daily to "richard_simpson@xtoenergy.com"		

Well Type:			
DEVELOPMENT:	XX	NEW WELL:	OIL: XX
EXPLORATORY:		RE-ENTRY: XX	GAS:
REMARK:			INJECTOR:

DRILL STEM TESTS:	FORMATION	DEPTH	DEFINITE/POSS/PROB
	1) NONE		
	2)		

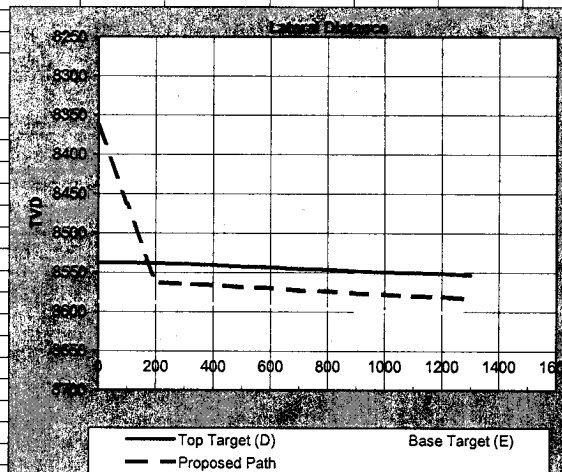
CORES:	FORMATION	CORE INTERVAL	CORE ANALYSIS
	1) NONE		
	2)		

Special Instructions:			
(Poss. Lost Circ.; Hi-Press Zones; Mud Properties, etc)			

NVAU 243 H

Approx Length 1264'
 HZ Direction 222°
 Inflection point: None
 Window Depth (ft) 8363

Lateral Distance	Proposed Path	Top Target SS (D)	Top Target MD (D)	Base Target SS (E)	Base Target MD (E)	KB
0	8363	-4489	8537	-4539	8587	4048
100	8463	-4489	8537	-4539	8587	4048
200	8563	-4490	8538	-4540	8588	4048
300	8565	-4491	8539	-4541	8589	4048
400	8566	-4492	8540	-4542	8590	4048
500	8569	-4494	8542	-4544	8592	4048
600	8570	-4495	8543	-4545	8593	4048
700	8573	-4497	8545	-4547	8595	4048
800	8574	-4498	8546	-4548	8596	4048
900	8577	-4500	8548	-4550	8598	4048
1,000	8578	-4501	8549	-4551	8599	4048
1,100	8580	-4502	8550	-4552	8600	4048
1,200	8581	-4503	8551	-4553	8601	4048
1,300	8584	-4505	8553	-4555	8603	4048



Vertical Tolerance= 10 feet up or down.

Remarks: Open Hole Completion

Do not go below 8563' at the end of the turn at approximately 89 degrees.

